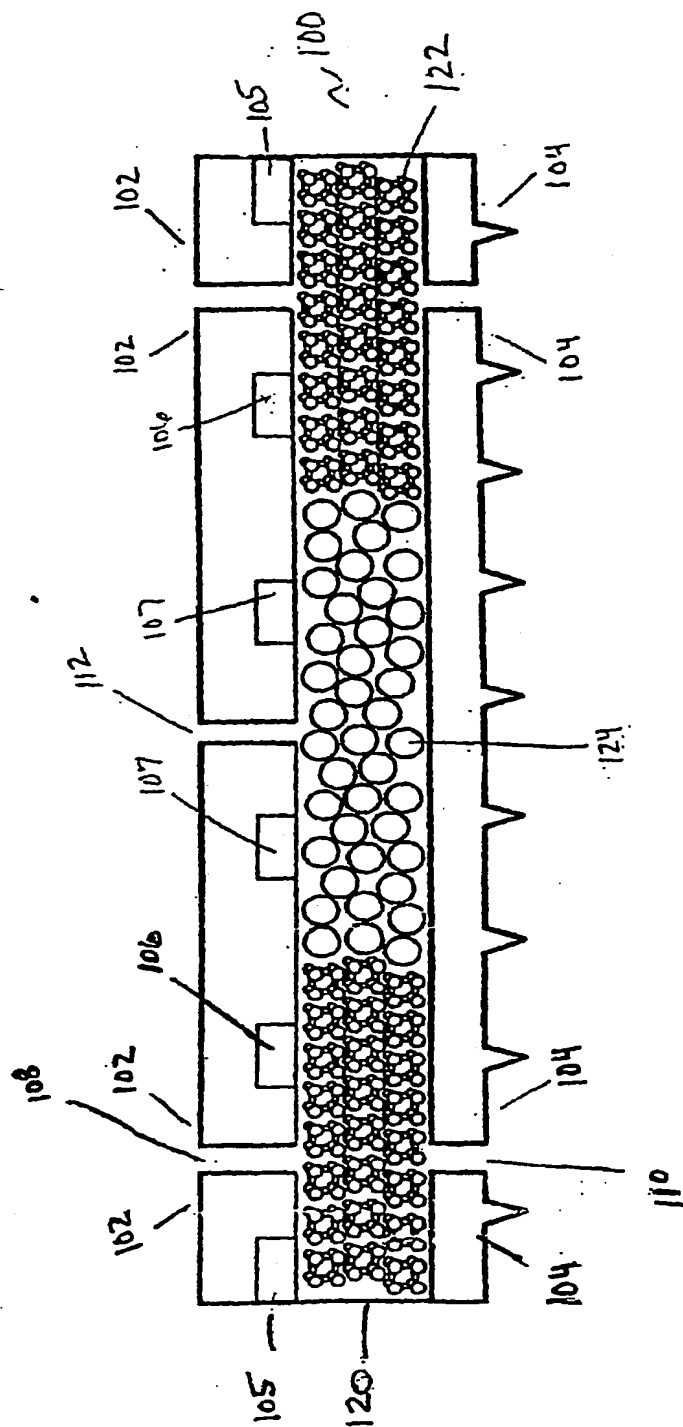


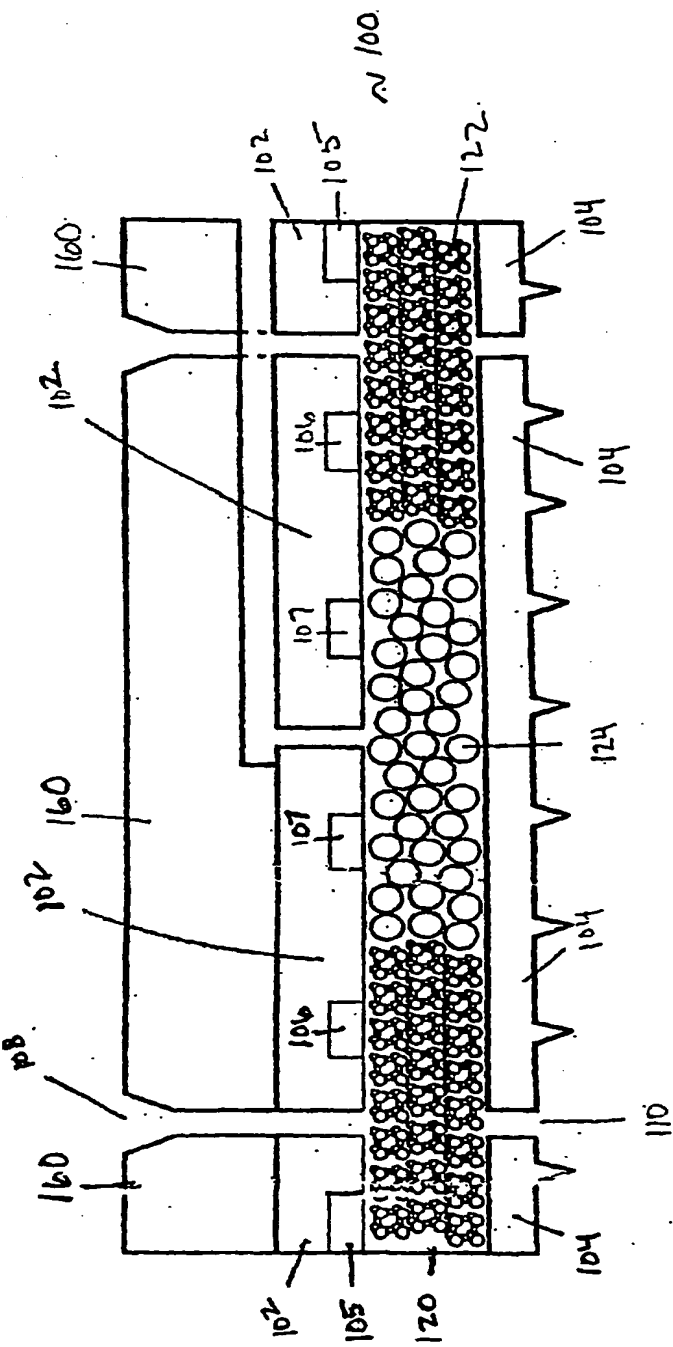
1/24

FIGURE 1A



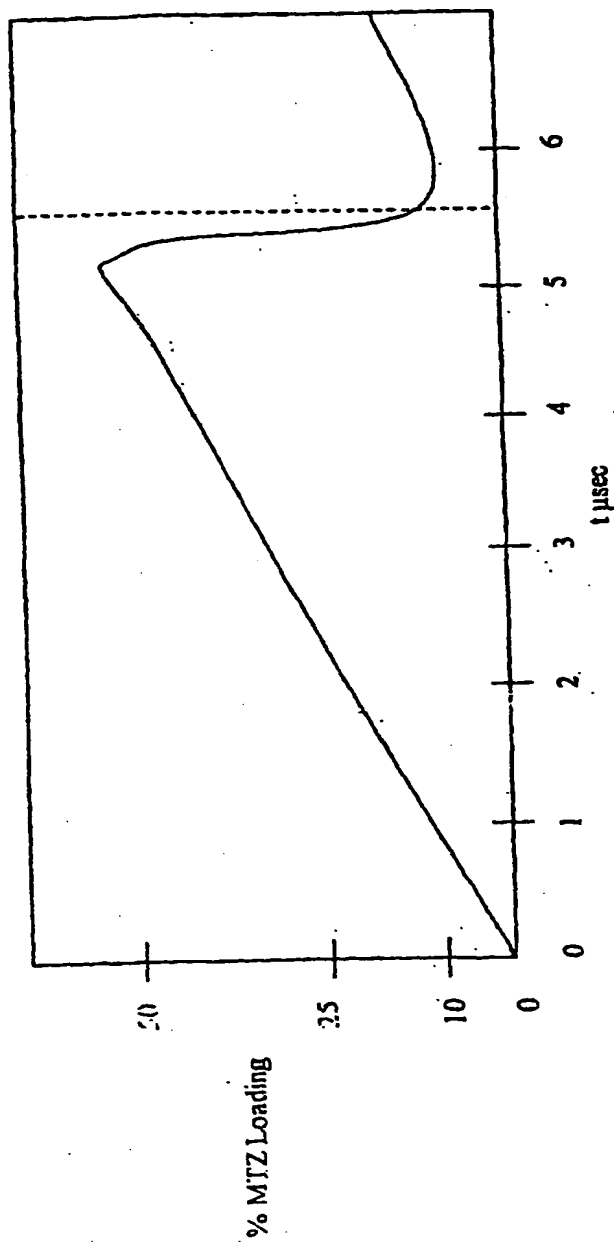
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FIGURE 1B



3/24

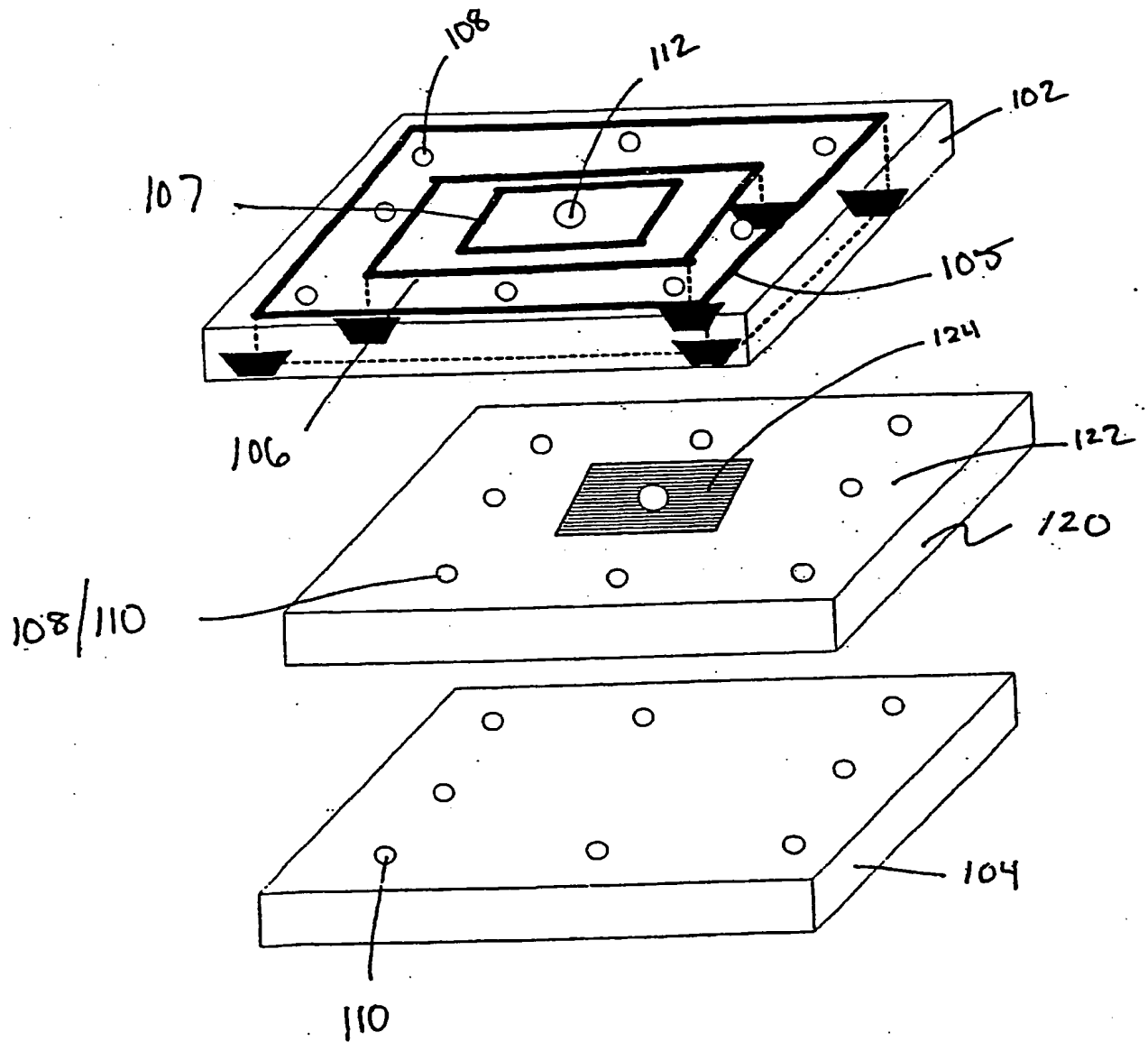
FIGURE 1C



The process is referred to as continuous because it does not cycle between vessels, but, obviously, has periodicity.

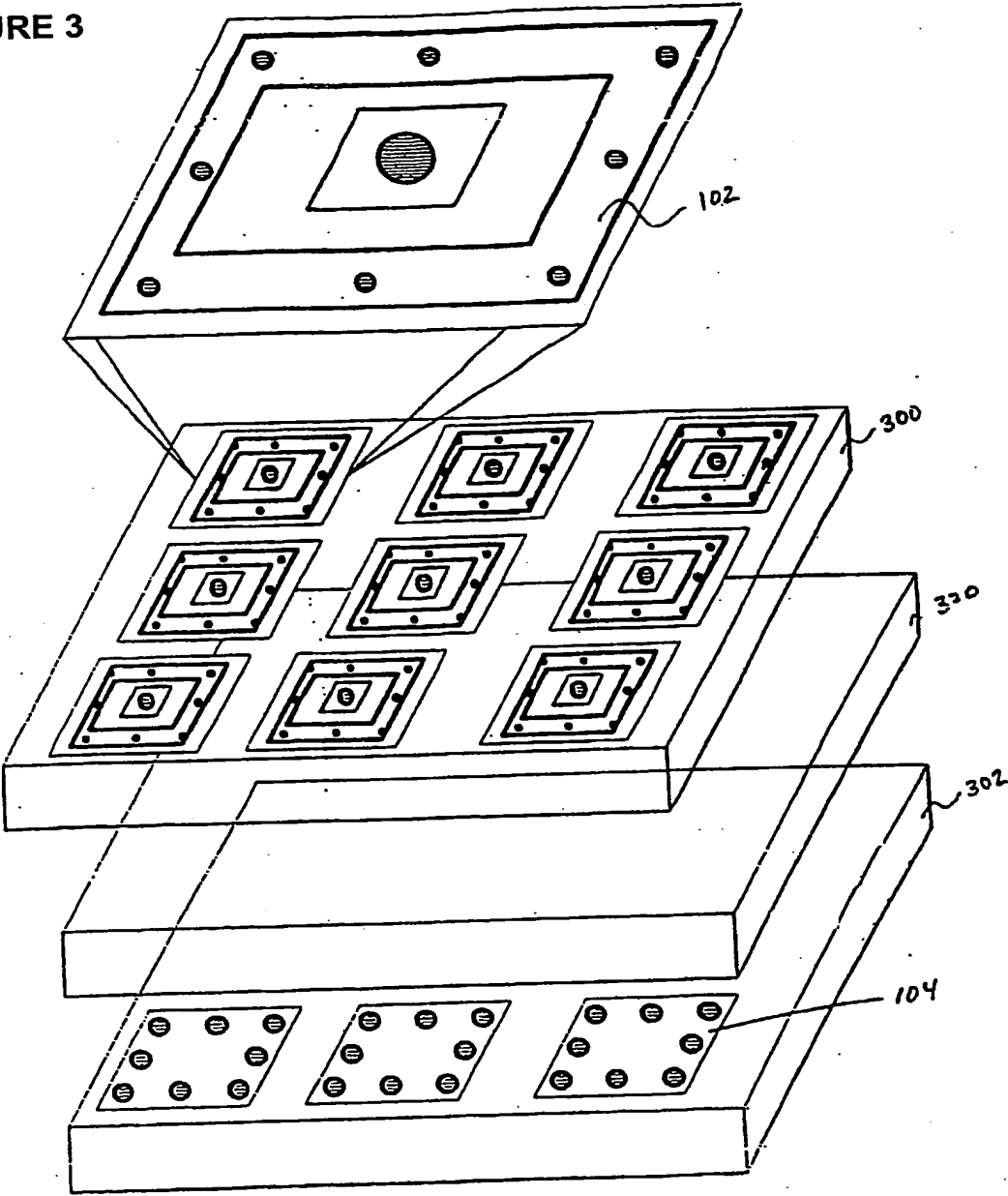
4/24

FIGURE 2



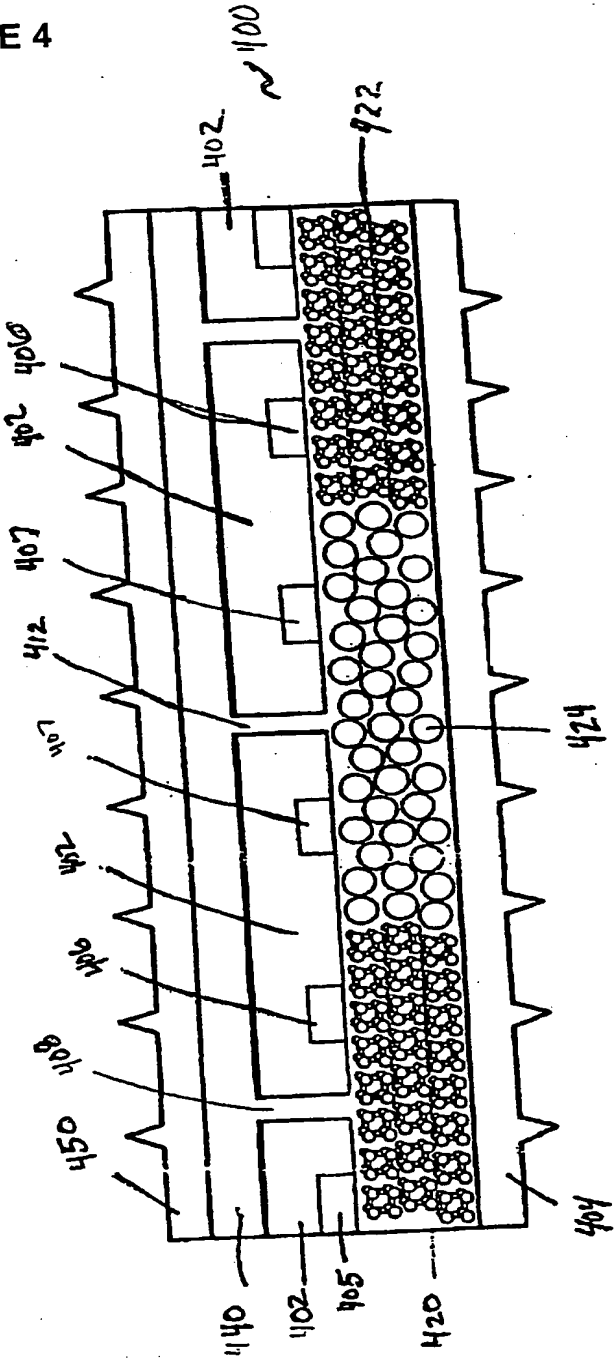
5/24

FIGURE 3



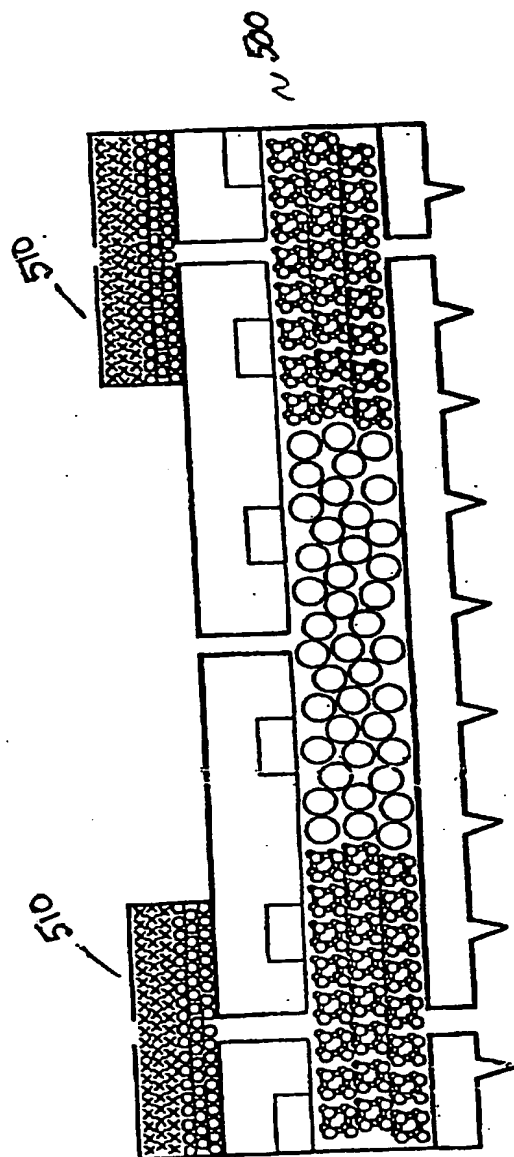
6/24

FIGURE 4



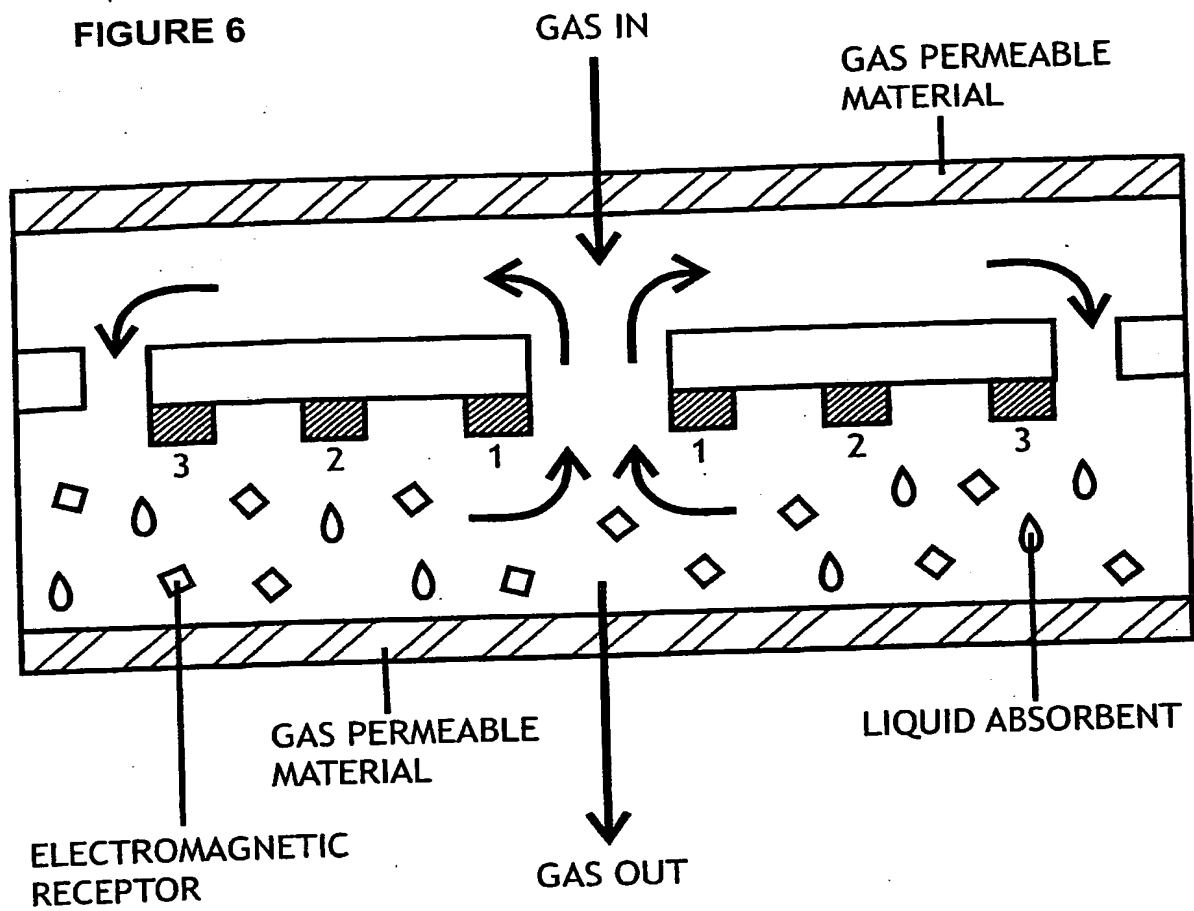
7/24

FIGURE 5



8/24

FIGURE 6

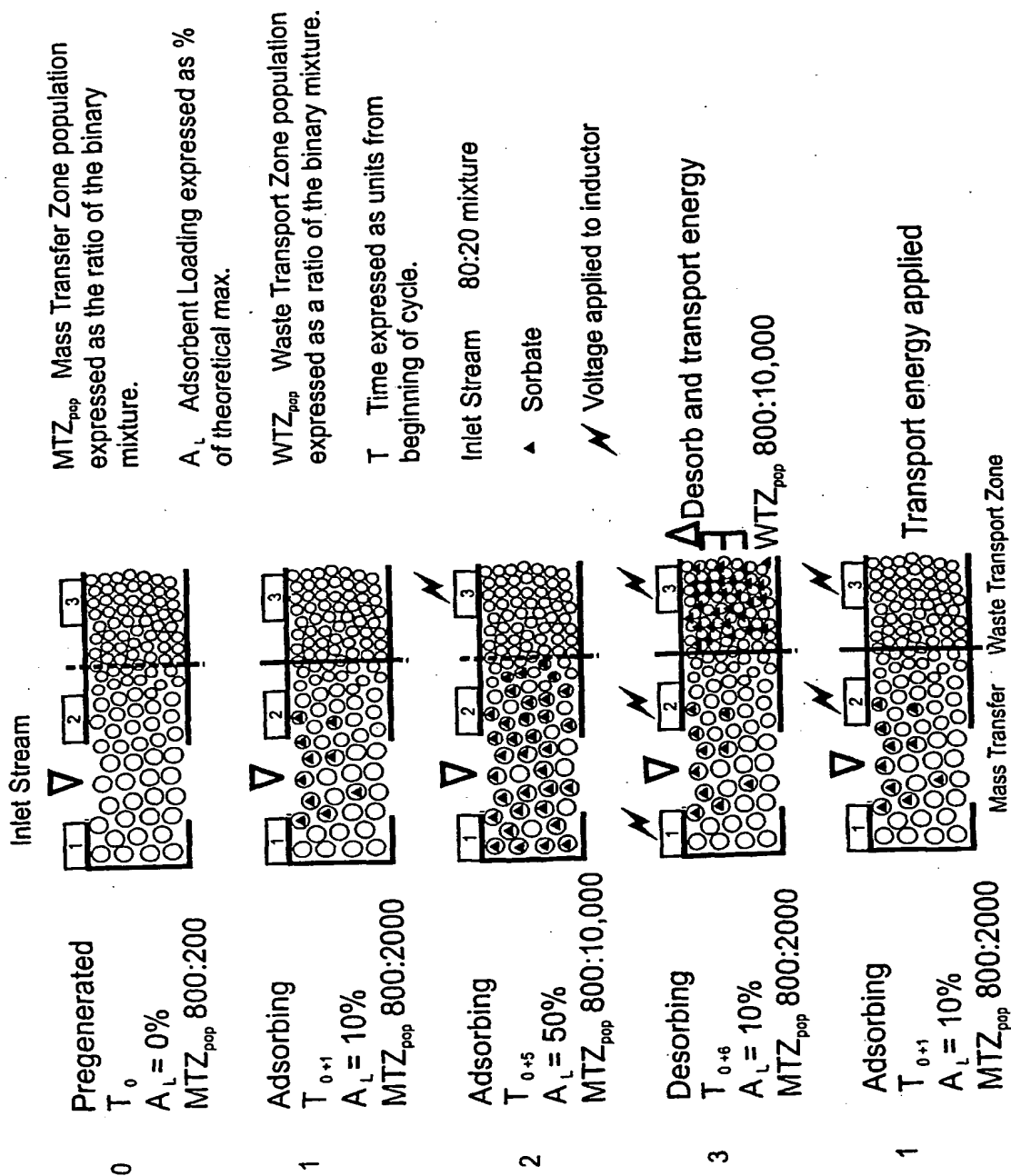


LIQUID ABSORBENT CONTRACTOR

9/24

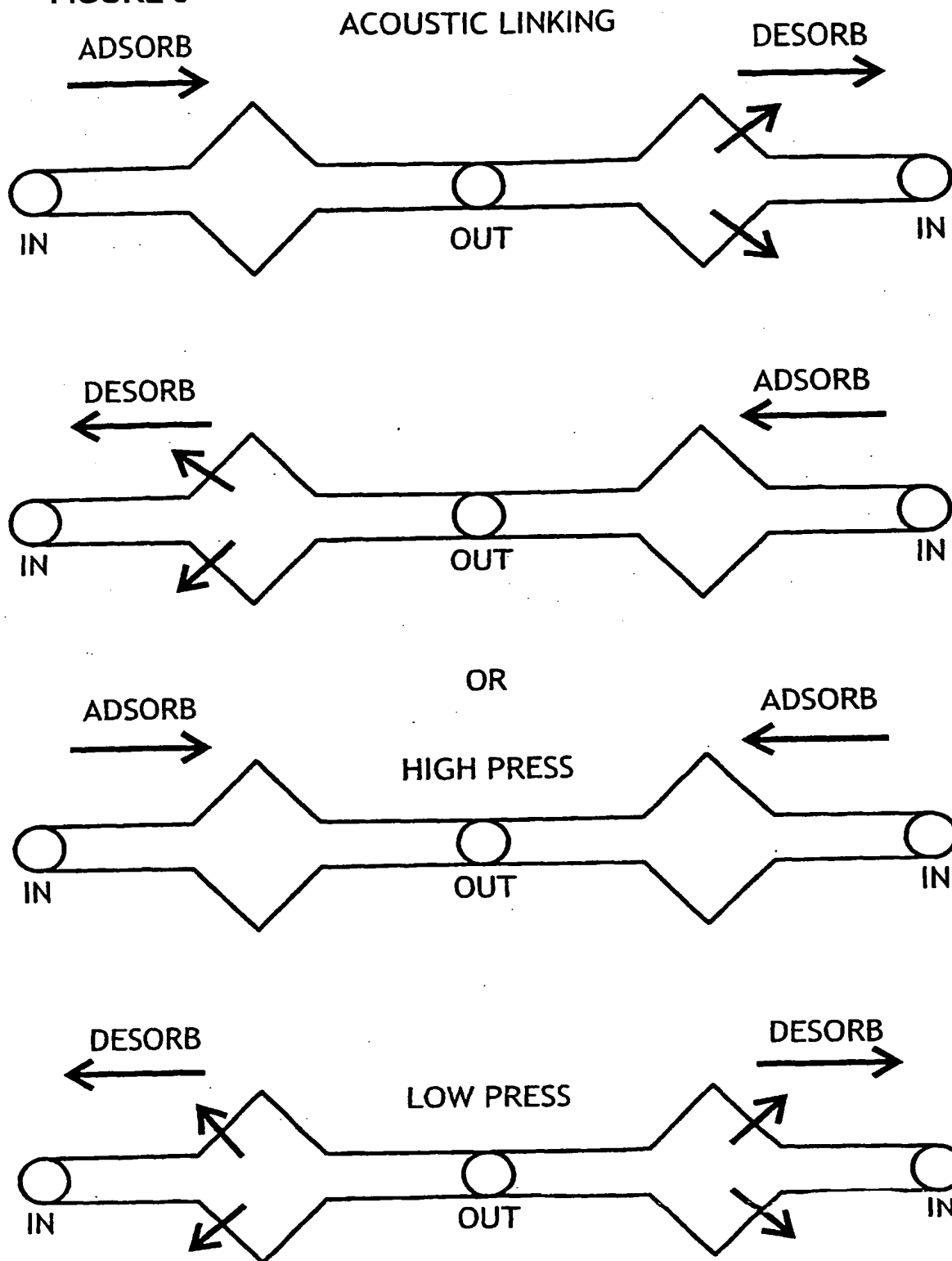
FIGURE 7

Continuous Adsorption Steps



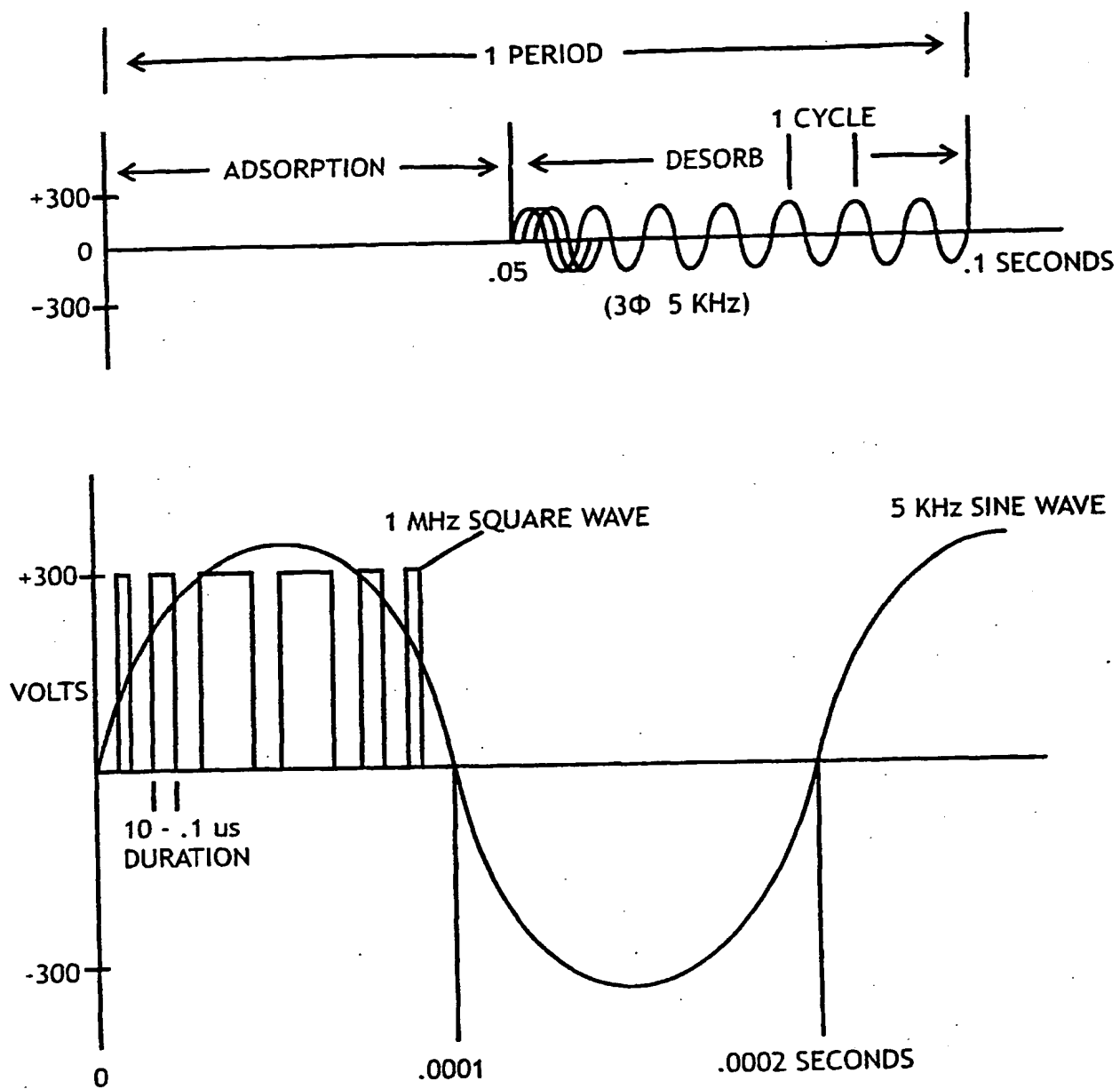
10/24

FIGURE 8



11/24

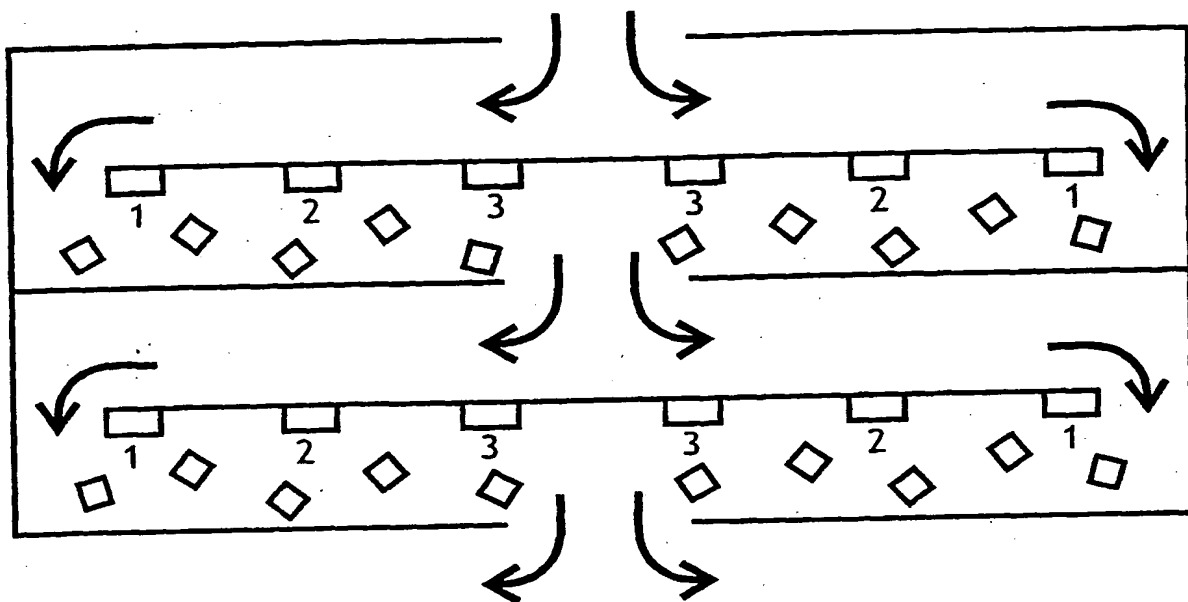
FIGURE 9



12/24

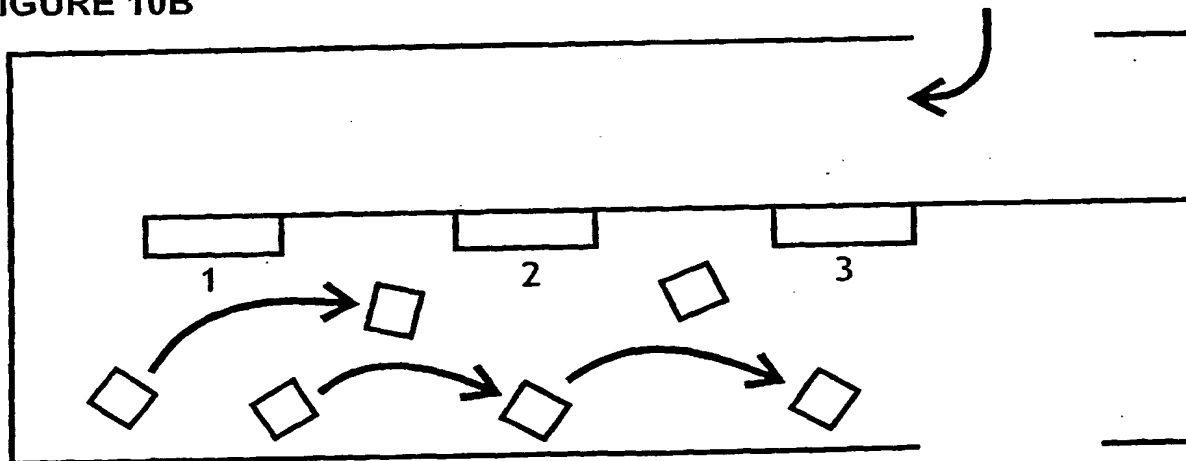
CASCADED VACUUM PUMP

FIGURE 10A

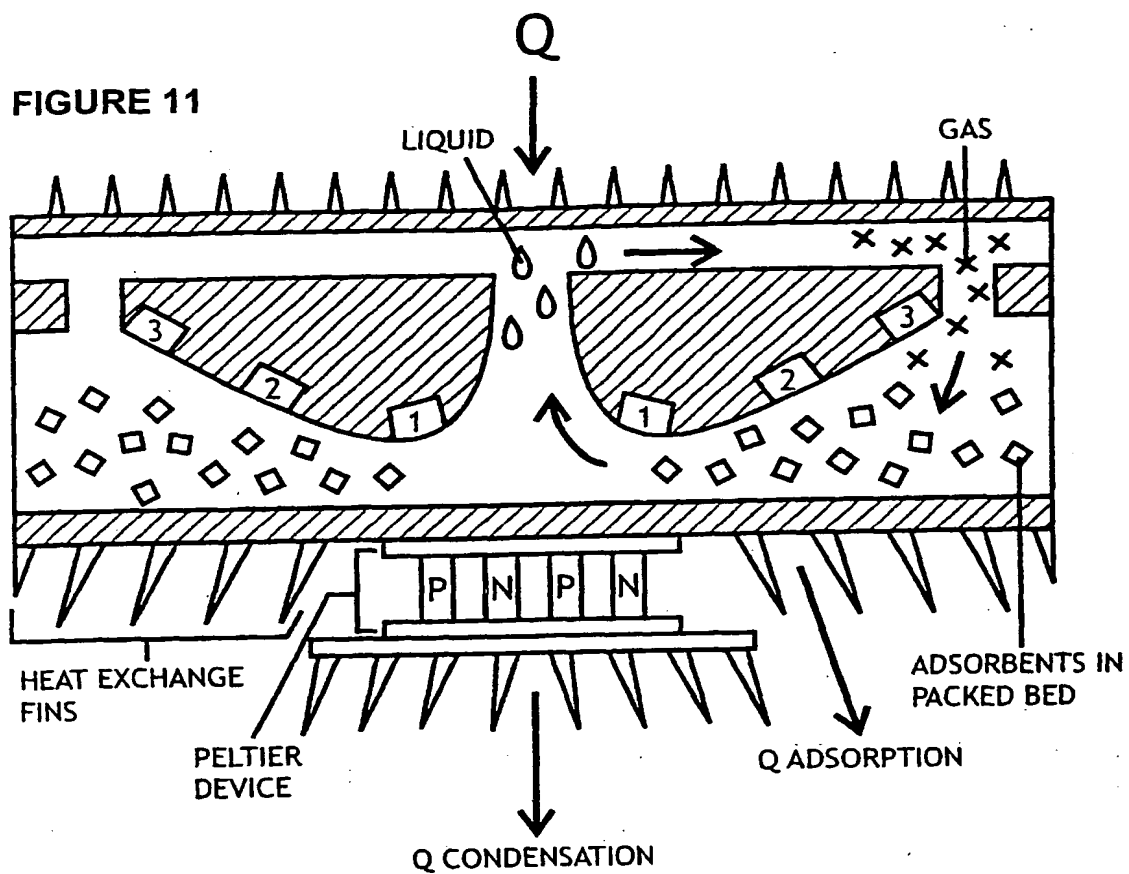


DESORPTION - ADSORPTION SITE HOPPING PHENOMENON

FIGURE 10B



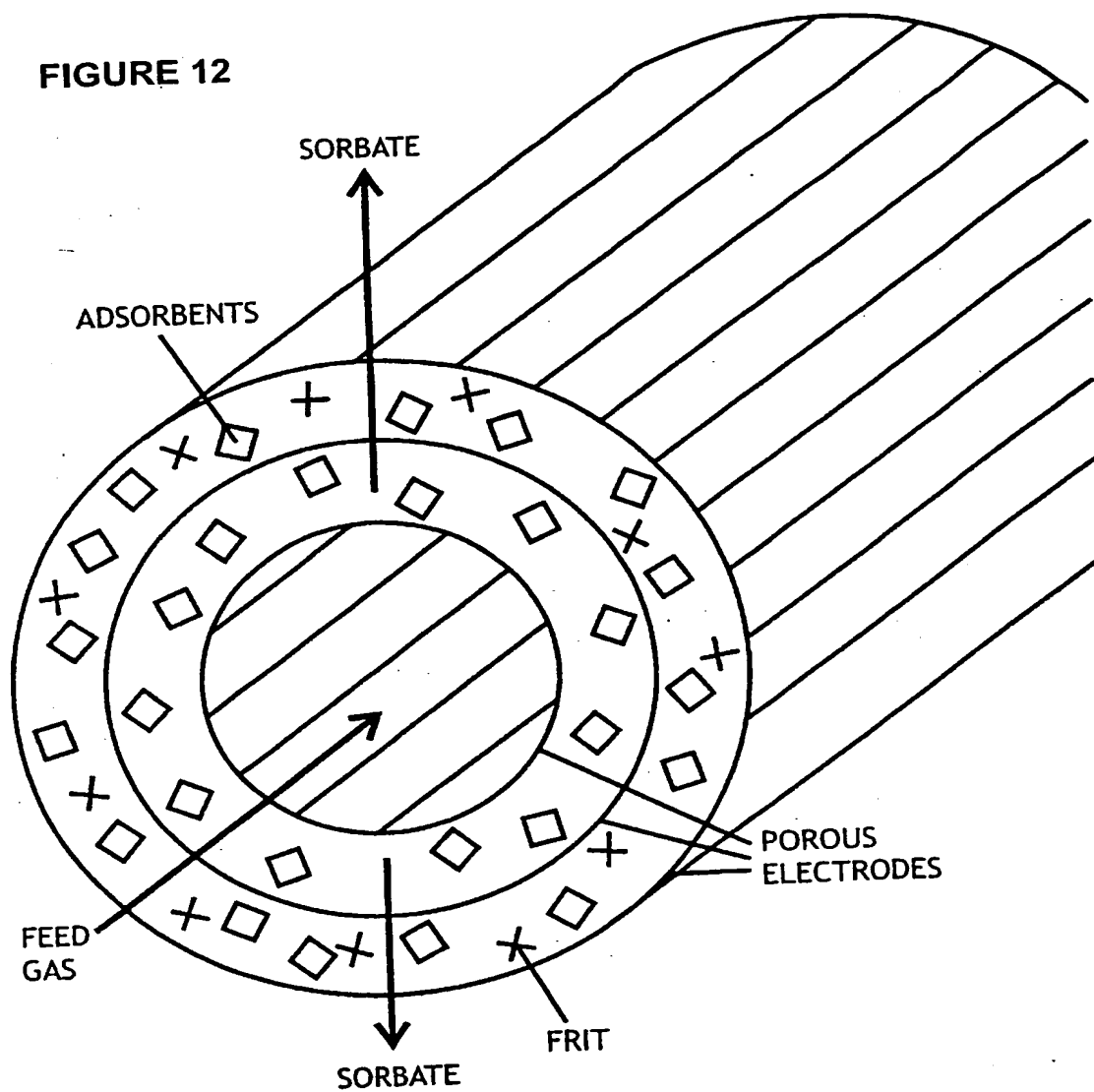
13/24



THERMOELECTRIC ASSISTED HEAT PUMP

14/24

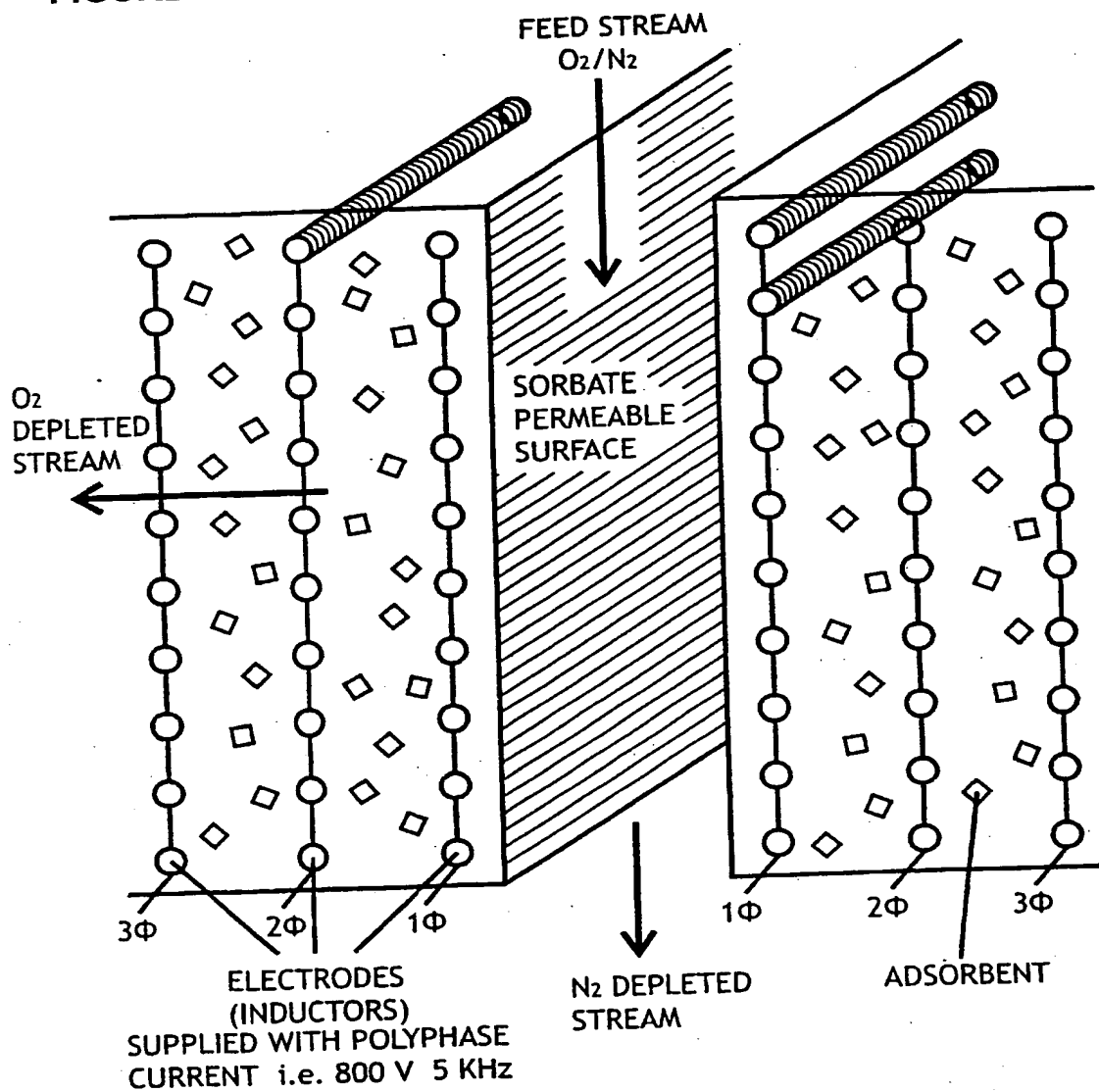
FIGURE 12



ELECTRO KINETICALLY ASSISTED SORPTION MEMBRANE

15/24

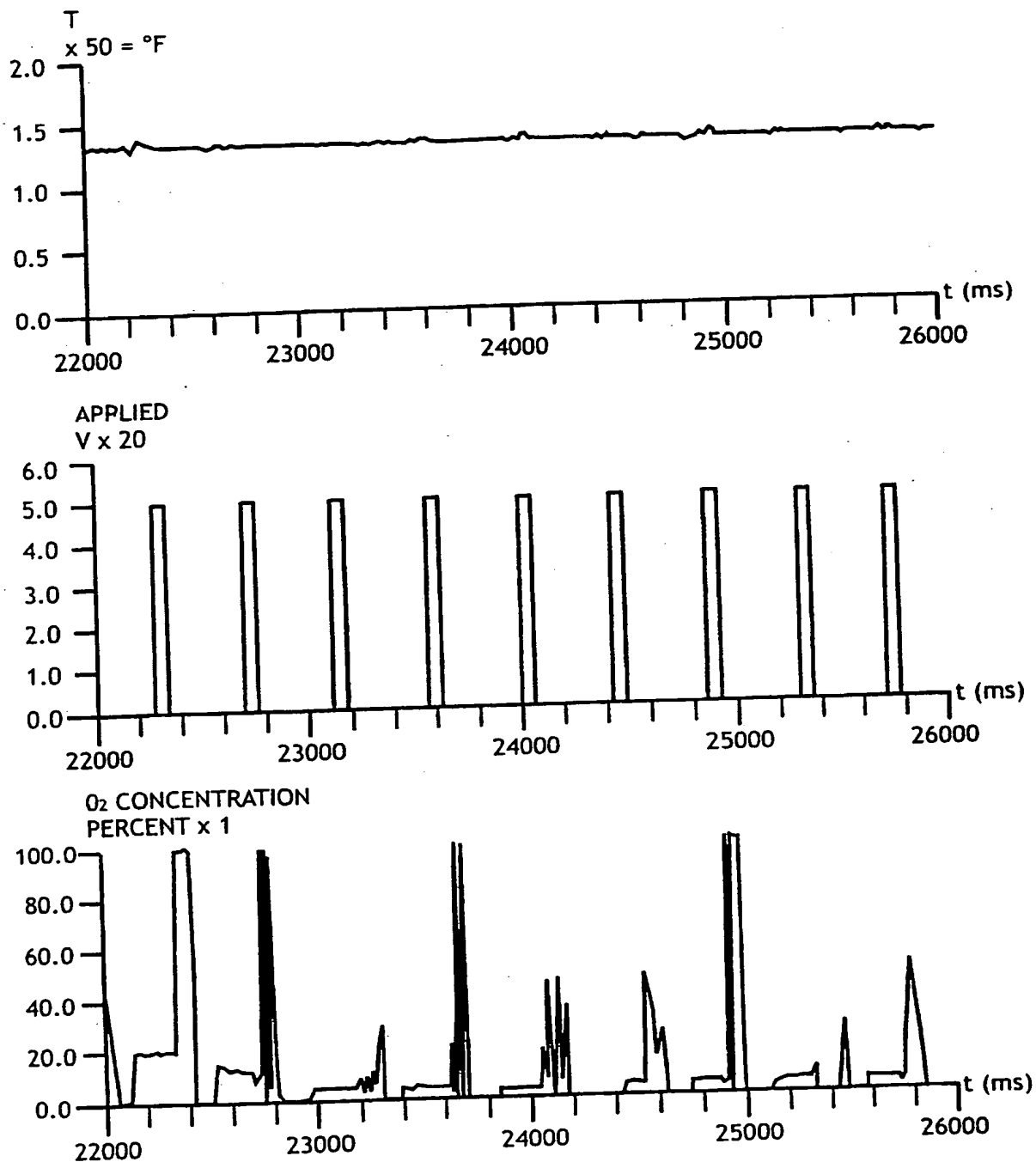
FIGURE 13



ELECTRO KINETICALLY ASSISTED SORBATE DIFFUSION

16/24

FIGURE 14



17/24

FIGURE 15A **PIEZO VALVE**

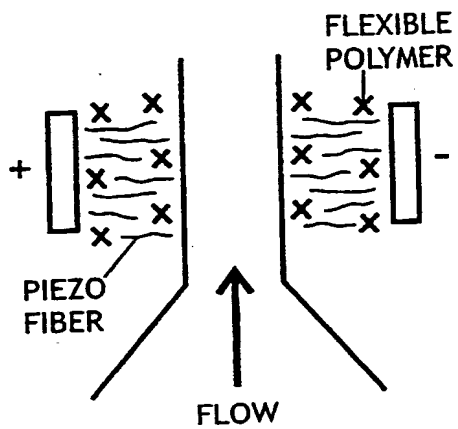
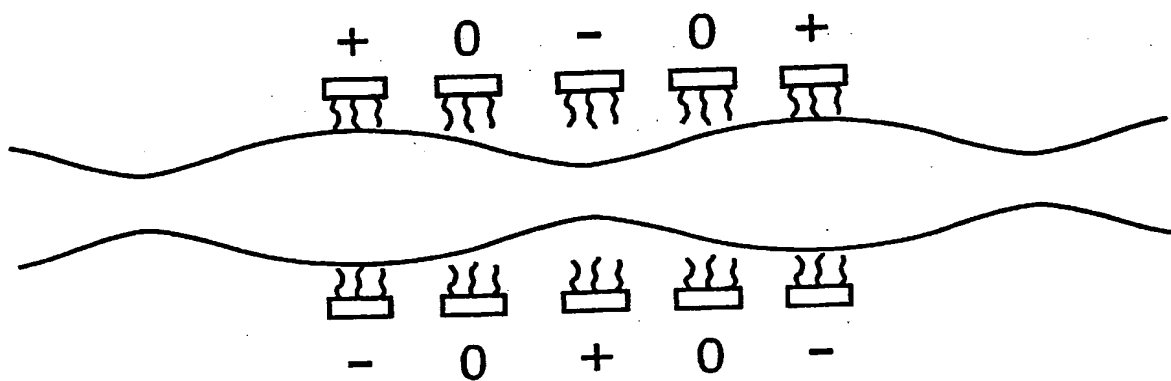
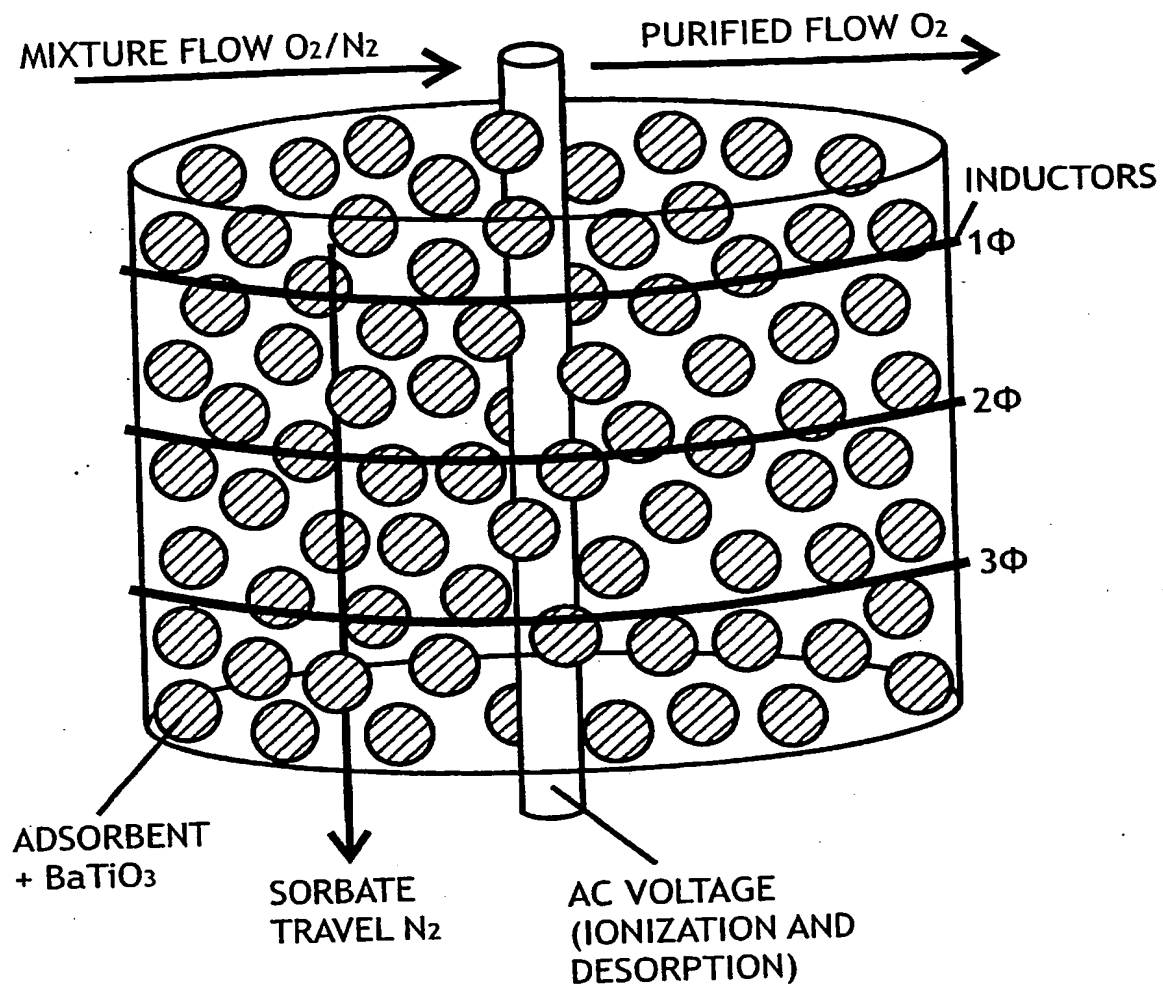


FIGURE 15B **3 PHASE PIEZO PUMP**



18/24

FIGURE 16



19/24

FIGURE 17

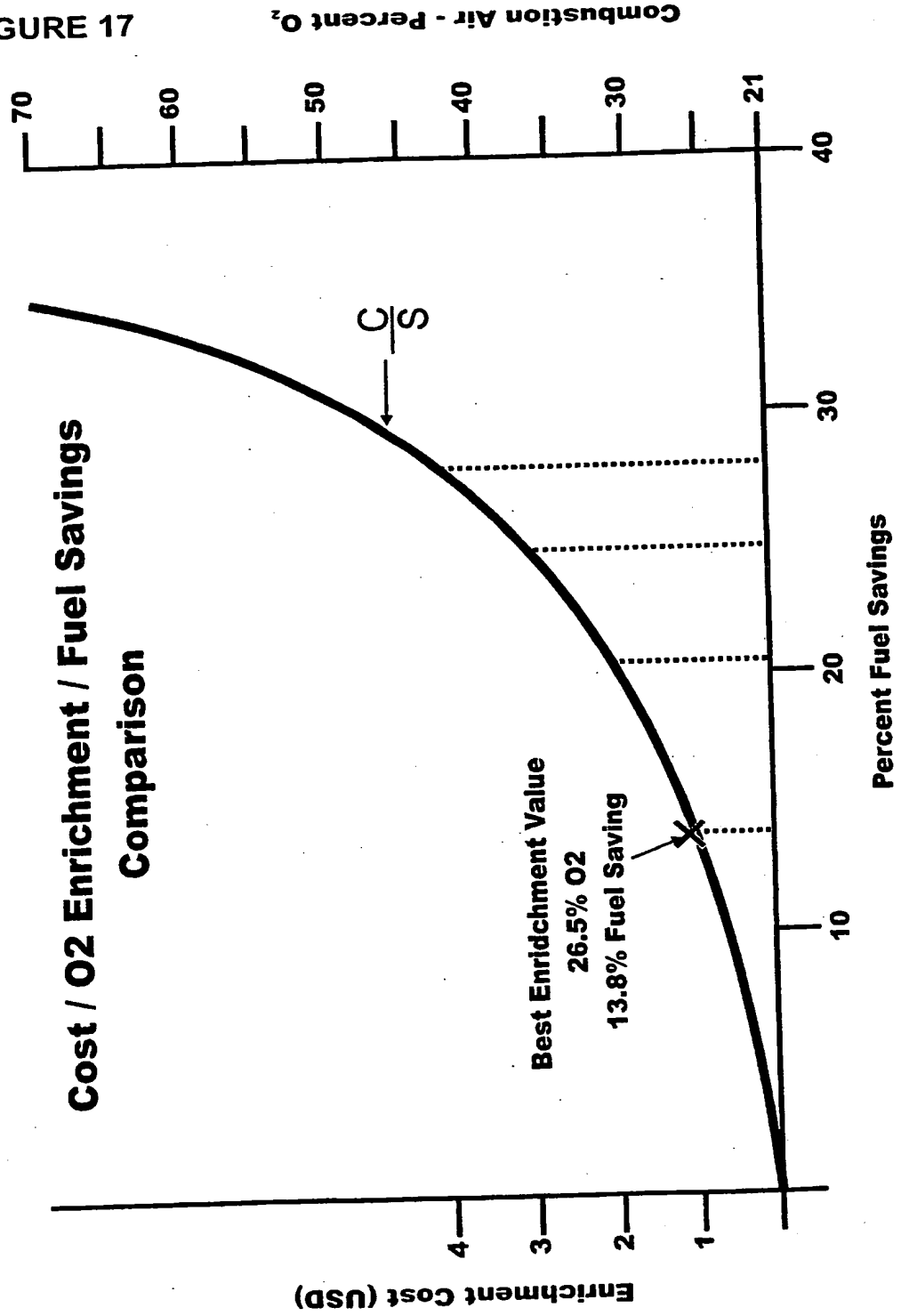
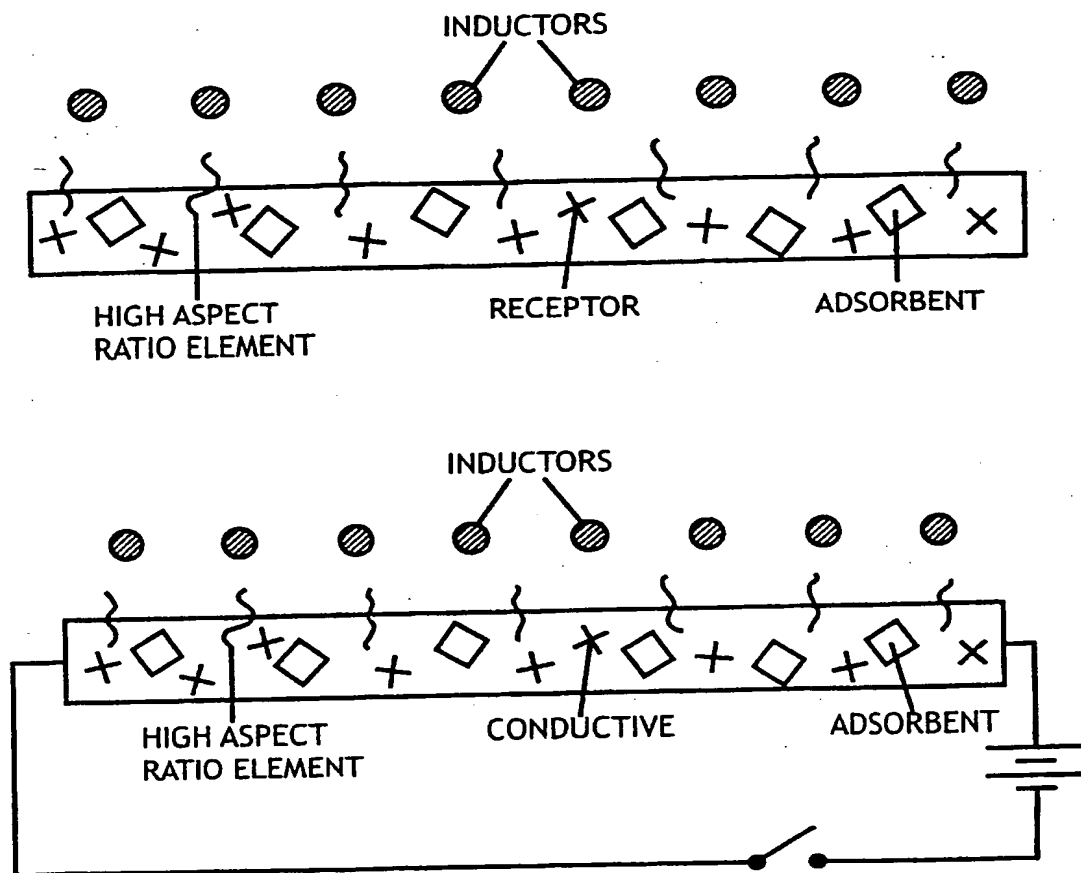


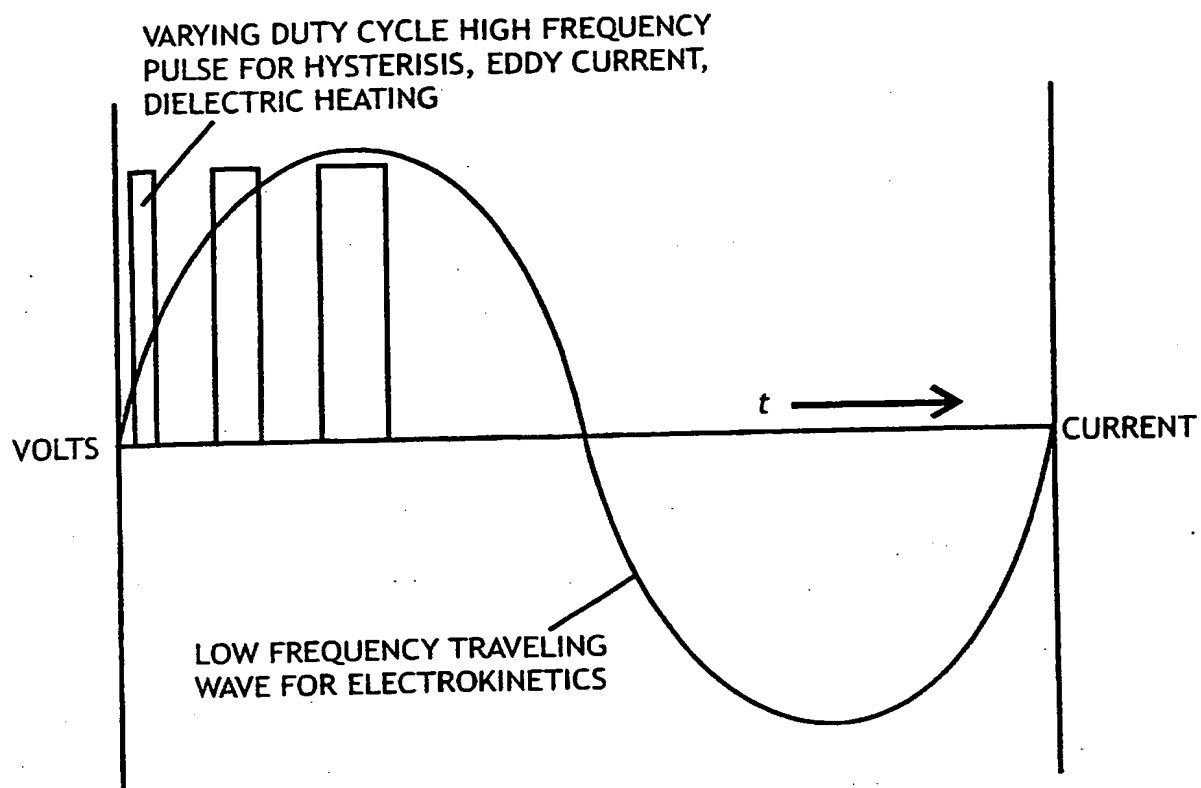
FIGURE 18



HIGH ASPECT RATIO ELEMENTS AS FIELD CONCENTRATORS FOR IONIZATION

21/24

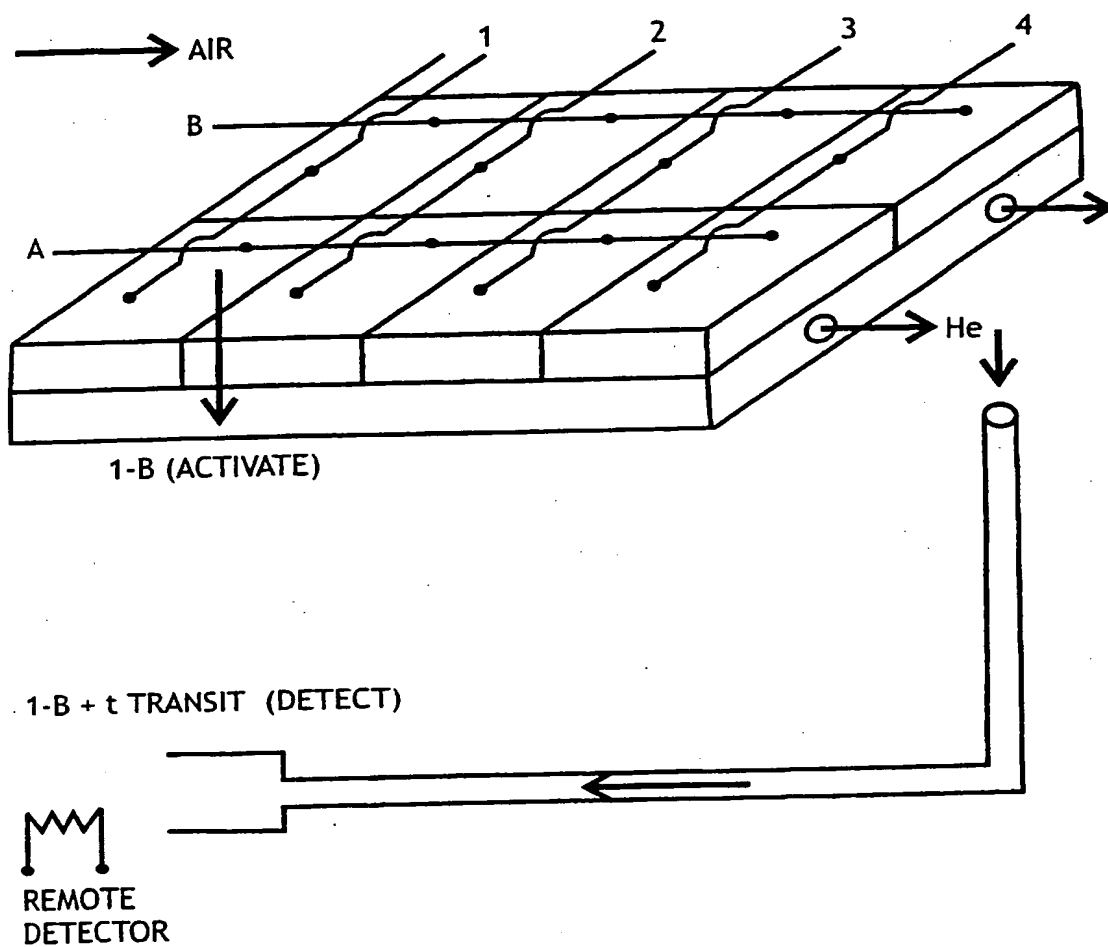
FIGURE 19



USING PULSE WIDTH MODULATION TO APPROXIMATE A SINE WAVE

22/24

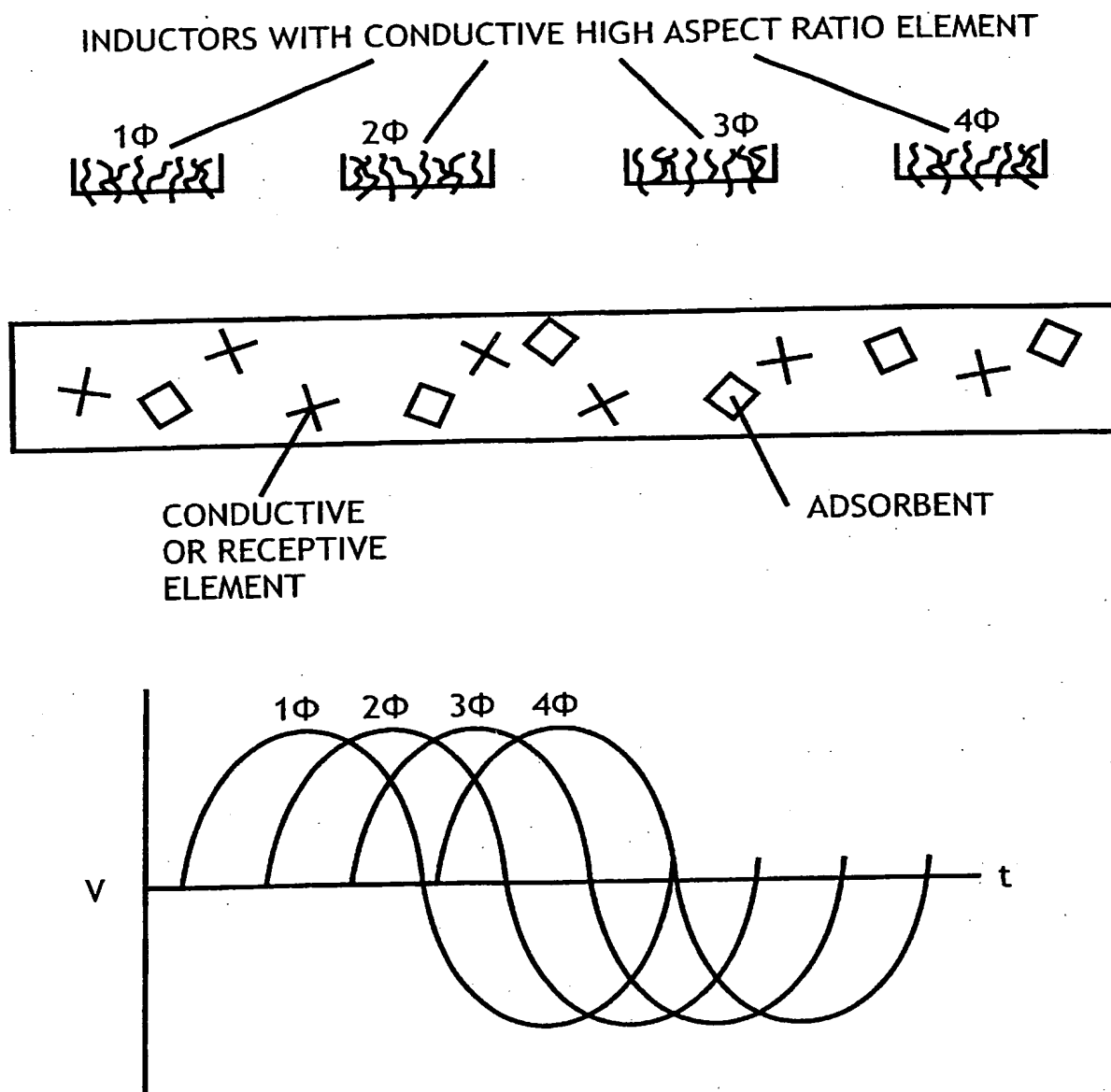
FIGURE 20



ADDRESSABLE CONCENTRATOR AND DETECTOR

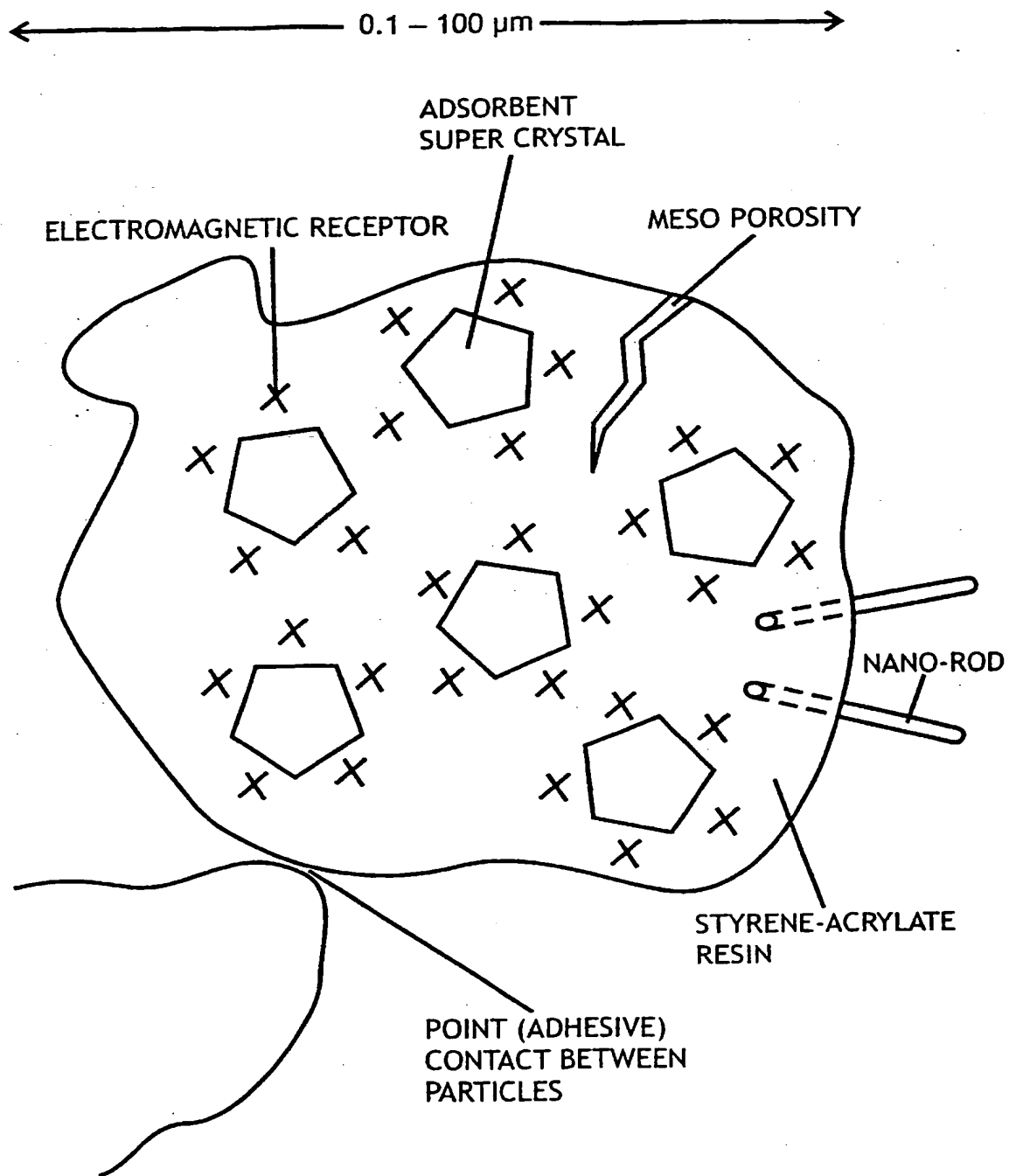
23/24

FIGURE 21



24/24

FIGURE 22



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